

DWPI

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TITLE: Stable liposome prepn. - contains erythropoietin

PATENT-ASSIGNEE: CHUGAI PHARM CO LTD[CHUS]

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PATENT-FAMILY:

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JP 08231417 A	September 10, 1996	N/A	010	A61K 038/22

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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ABSTRACTED-PUB-NO: JP08231417A

BASIC-ABSTRACT: Liposome prepn. contains erythropoietin (Eco). The lipid spore wall of liposome pref. comprises at least 1 of natural or synthetic lecithin, cephalin and sphingomyelin and opt. sterols (SA) and/or sterol glycosides (SAG), partic. at least 1 of beta-sitosterol, campesterol, stigmasterol, bradykasterol and cholesterol (Ch). ADVANTAGE - The liposome prepn. is stable. In an example, in 50 ml of CHCl<sub>3</sub>, 105 micro mole dipalmitoyl phosphatidyl chlorine (DPPC) and 30 micro mole of soybean sterol (SS) or soybean sterol glycoside (SG) at molar ratios of DPPC:SS or SG = 7:2 were dissolved and evaporated to give a thin film of lipid. The lipid film was re-dissolved in each 3 ml mixt. of CHCl<sub>3</sub> and (i-Pr) 20 and 1 ml each of 180000 IU/ml of Epo and phosphate buffered saline soln. were added and sonicated for 4 mins. to give a homogeneous mixt. of W/O emulsion. The residue was flashed with N<sub>2</sub> stream, diluted with PBS, and filtered through a polycarbonate membrane filter to give Epo enclosed in SS-liposome or SG-liposome. The obtd. SS-liposome or SG-liposome suspension was subcutaneously admin. to male 9-week-old Wistar rats. Blood samples drawn 2, 4 and 7 days after admin. show elevated circulating Epo contg. reticulocytes up to 56900 +/- 3100, and 51500 +/- 2700/micro L, respectively.

CHOSEN-DRAWING: Dwg.0/6

DERWENT-CLASS: B04

CPI-CODES: B01-D01; B01-D02; B04-B01B; B04-H07; B05-B01P; B12-M11F;